

SECTION 16736

FIBER DISTRIBUTION UNIT

1. Description. Furnish and install Primary Fiber Distribution Units (PFDU) and Secondary Fiber Distribution Units (SFDU) in the individual traffic cabinets and communications closets within buildings as shown on plans.
 - A. Submittals. Provide the Engineer with all submittals identified in these specifications no later than two (2) weeks following award of the contract.
2. Materials. Do not purchase fiber distribution unit for use on this project prior to receiving written approval of submittals for fiber distribution unit by the Engineer, as established in Section 1A. All fiber distribution unit(s) supplied and utilized on this project will be from a single manufacturer. Fiber distribution unit and the fiber optic cable manufacturer shall be vertically integrated. Manufacturers proposing to supply fiber distribution unit(s) for this project will be Certified ISO-9001 and TL 9000 Certified.

Fiber distribution unit manufacturer proposed for this project will demonstrate, as a prerequisite, engagement in the production of fiber distribution unit(s) specified herein, for a continuous period of twenty years.

A. General Requirements.

- (1). PFDU. Utilize hardware within the primary hubs in support of the hub distribution system and the primary network. This point in the system allows the distribution of signals directly to the network electronics via a jumper cord/patch cord cable management system.
 - a. The PFDU is characterized by a modular, medium density construction.
 - b. Termination method for PFDU will be field termination of all inbound cable and patch cord connectivity to all outbound cables and network electronics.
 - c. PFDU will be mountable within a 19 inch rack or bay and have a typical dimension of 7 inch high by 17 inch wide by 16 inch deep.
 - d. PFDU hardware will be easily adaptable for bay routing of patch cords and cable.
 - e. Design hardware to allow for the side-by-side termination of all fibers without violating minimum bend radius requirements.
 - f. Each PFDU connector capacity will be 144 for SC or ST compatible connections as specified on plans.

- END OF SECTION